


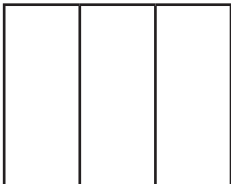
# Simplifying Fractions

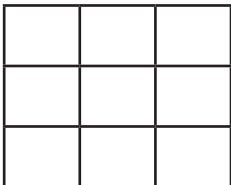
1. a.  Shade  $\frac{3}{4}$ .

b.  Shade  $\frac{6}{8}$ .

c. What do you notice about the shading in the two shapes?

d. What does this tell you about  $\frac{3}{4}$  and  $\frac{6}{8}$ ?


2. a.  Shade  $\frac{1}{3}$ .

b.  Shade  $\frac{3}{9}$ .

c. What do you notice about the shading in the two shapes?

d. What does this tell you about  $\frac{1}{3}$  and  $\frac{3}{9}$ ?

3. a.  Shade  $\frac{1}{2}$ .

b.  Shade  $\frac{5}{10}$ .

c. What do you notice about the shading in the two shapes?

d. What does this tell you about  $\frac{1}{2}$  and  $\frac{5}{10}$ ?

4. a. Find a number, other than 1, that both 5 and 15 can be divided by.

b. Find a number, other than 1, that both 2 and 8 can be divided by.

c. Find a number, other than 1, that both 3 and 12 can be divided by.

d. Find a number, other than 1, that both 8 and 4 can be divided by.

- e. Find a number, other than 1, that both 27 and 9 can be divided by.
- f. Find a number, other than 1, that both 11 and 33 can be divided by.
- g. Find a number, other than 1, that both 5 and 25 can be divided by.
- h. Find a number, other than 1, that both 8 and 64 can be divided by.
- i. Find a number, other than 1, that both 21 and 35 can be divided by.
5. Use your answers to part 4 to simplify the following fractions. Don't forget to make sure that they are fully simplified; you may sometimes need to simplify again after you have simplified once.
- a.  $\frac{5}{15}$
- b.  $\frac{2}{8}$
- c.  $\frac{3}{12}$
- d.  $\frac{4}{8}$
- e.  $\frac{9}{27}$
- f.  $\frac{11}{33}$
- g.  $\frac{5}{25}$
- h.  $\frac{8}{64}$
- i.  $\frac{21}{35}$
6. Fully simplify the following fractions:
- a.  $\frac{8}{32}$
- b.  $\frac{7}{21}$
- c.  $\frac{9}{15}$
- d.  $\frac{8}{12}$
- e.  $\frac{15}{45}$
- f.  $\frac{5}{50}$
- g.  $\frac{27}{63}$
- h.  $\frac{44}{132}$